09/899421
STN
09.23.02

Connecting via Winsock to STN

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LOGINID:ssspta1610jxm

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 01 ZREGENE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 31 NETFIRST to be removed from STN
NEWS 16 Aug 01 CANCERLIT reload
NEWS 17 Aug 01 PHARMAMarketLetter-PHARMAML - new on STN
NEWS 18 Aug 05 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA

NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 06 FEBRUARY 2002
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:43:55 ON 23 SEP 2002

=> fil reg
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 12:44:06 ON 23 SEP 2002
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STRUCTURE FILE UPDATES: 22 SEP 2002 HIGHEST RN 453594-96-2
DICTIONARY FILE UPDATES: 22 SEP 2002 HIGHEST RN 453594-96-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 09899421 end elect.str

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR

D

N

Cb

Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful
FULL SEARCH INITIATED 12:44:23 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 4012 TO ITERATE

100.0% PROCESSED 4012 ITERATIONS 547 ANSWERS
SEARCH TIME: 00.00.02

L2 547 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 140.28 141.49

FILE 'CAPLUS' ENTERED AT 12:44:36 ON 23 SEP 2002
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FILE COVERS 1907 - 23 Sep 2002 VOL 137 ISS 13
FILE LAST UPDATED: 22 Sep 2002 (20020922/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s l2 p
L3 144 L2/P

=> fil reg
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 0.40 141.89

FILE 'REGISTRY' ENTERED AT 12:44:52 ON 23 SEP 2002
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STRUCTURE FILE UPDATES: 22 SEP 2002 HIGHEST RN 453594-96-2
DICTIONARY FILE UPDATES: 22 SEP 2002 HIGHEST RN 453594-96-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

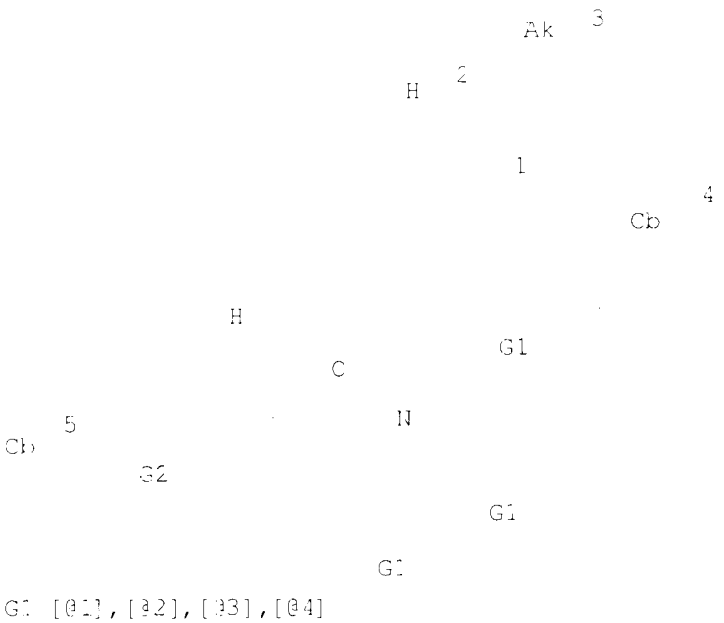
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 09899421 end.str

L4 STRUCTURE UPLOADED

=> d
L4 HAS NO ANSWERS
L4 STR



G1 [@1],[@2],[@3],[@4]
G2 [@5]

Structure attributes must be viewed using STN Express query preparation.

=> s l4 ful
FULL SEARCH INITIATED 12:45:34 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 66531 TO ITERATE

100.0% PROCESSED 66531 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.17

L5 1 SEA SSS FUL L4

=>
Uploading 09899421 interm.str

L6 STRUCTURE UPLOADED

=> d
L6 HAS NO ANSWERS
L6 STR

Structure attributes must be viewed using STN Express query preparation.

=> s l6 ful
FULL SEARCH INITIATED 12:46:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - >1,300,000 TO ITERATE

< 15.7% PROCESSED 196653 ITERATIONS 148 ANSWERS

< 24.7% PROCESSED 247055 ITERATIONS 293 ANSWERS

< 31.7% PROCESSED 317067 ITERATIONS 418 ANSWERS

< 39.7% PROCESSED 397457 ITERATIONS 549 ANSWERS

< 40.0% PROCESSED 400000 ITERATIONS 551 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.02.12

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS 8635

L7 551 SEA SSS FUL L6

=> s l7 and caplus/lc
24588658 CAPLUS/LC

L8 367 L7 AND CAPLUS/LC

=> fil caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	286.46	427.35

FILE 'CAPLUS' ENTERED AT 12:48:48 ON 23 SEP 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 23 Sep 2002 VOL 137 ISS 13
FILE LAST UPDATED: 22 Sep 2002 (20020922/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s l7 ful
L9 123 L7

=> s l9 and l3 ful
L10 1 L9 AND L3

=> d l10 ibib abs hitstr

L1 ANSWER 1 OF ... RETRIEVED ... ACS

ACCESSION NUMBER: ...
DOCUMENT NUMBER: ...
TITLE: Asymmetric synthesis of 4-epicylindrospermopsin via ...
Assignment ...
AUTHOR(S): ...
CORPORATE SOURCE: Department of Chemistry, Oregon State University, ...
SOURCE: ... Journal of the American Chemical Society ...
PUBLISHER: American Chemical Society
DOCUMENT TYPE: ... Journal
LANGUAGE: English

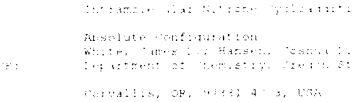
* ... DIAGRAM(S) ... FOR CYCLIZATION ... AVAILABLE VIA "STRUCTURE IMAGE" *

AB A synthesis of (-)-epicylindrospermopsin (1) was completed that establishes its absolute configuration and corrects the ... structural assignment previously made for this family by Weinreb et al. The hydroxylamine ... 4-BrC6H4CH2CH2N(OH)CH2CH2CH(OMe)2 (8) prepared from ... 4-(2-bromoethyl)-2-methoxytetrahydropyran was converted with ... to ... obtained in ... nine steps from (R)-methionine, to give ... Intramol. cyclization ... (1) proceeded stereoselectively ... gave a ... 2-azabicyclo[3.3.1]heptane ... which after ... and ... protection afforded ... both ... by ... Swern ... The latter was treated ... via its ... ylide ... to the ... ... and the ... oxide was cyclized to ... the ... skeleton nearly ... in ... Final ... of the ... by ... and ... Ts ... X-ray ... of a ... diol intermediate ... the ... configuration.

RE **434308-66-4P 434308-95-9P**
    RL: RCT (Reactant / ...); SYN (Synthetic ...); ... (Preparation); ... REACT
      Reactant or ...
        ... synthesis of ... epicylindrospermopsin ... via ... cyclization ... and its abs. configuration)
RN 434308-66-4 ... CAPLUS
CN ... Cyclohexanol, ... 4-[2-[[2-(4-bromophenyl)-1-methoxyethyl]methyl] ...

L1 ANSWER 1 OF ... ACCESSION ... RETRIEVED ... ACS ... DUPLICATE
    ... 4-(2-bromoethyl)-2-methoxytetrahydropyran ... IN THE INDEX NAME

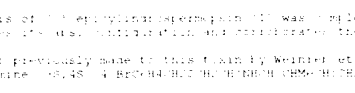
Absolute stereochemistry.



MeO

RN 434308-95-9 ... CAPLUS
CN 4-[2-[[2-(4-bromophenyl)-2-methoxyethyl]methyl][3-[(4-methylphenyl)sulfonyl]propyl]amino]ethyl]-2-methoxytetrahydropyran ... (9CI) ... (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



MeO

REFERENCE COUNT: ... THERE ARE ... CITED REFERENCES AVAILABLE FOR THIS ...
RECORD. ALL CITATIONS AVAILABLE IN THE ...
RE FORMAT

```
=> d his

     (FILE 'HOME' ENTERED AT 12:43:55 ON 23 SEP 2002)

     FILE 'REGISTRY' ENTERED AT 12:44:06 ON 23 SEP 2002
L1                STRUCTURE UPLOADED
L2             547 S L1 FUL

     FILE 'CAPLUS' ENTERED AT 12:44:36 ON 23 SEP 2002
L3             145 S L2/P

     FILE 'REGISTRY' ENTERED AT 12:44:52 ON 23 SEP 2002
L4                STRUCTURE UPLOADED
L5               1 S L4 FUL
L6                STRUCTURE UPLOADED
L7             561 S L6 FUL
L8             367 S L7 AND CAPLUS/LC

     FILE 'CAPLUS' ENTERED AT 12:48:48 ON 23 SEP 2002
L9             123 S L7 FUL
L10              1 S L9 AND L3 FUL

=> s process?
L11    2839360 PROCESS?

=> s l11 and l7
             123 L7
L12           14 L11 AND L7

=> d l12 1-14 ibib abs hitstr
```

L12 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER:
TITLE:
AUTHOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2001 US484 A1 20010705 WO 2000 US33677 20001214

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

IRI KIDY APPLN. INFO.: PR 1999-US29 A 19991217

AI

L12 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2001 ACS Continued

N

H

pl

H

Br

N C N

MeO N

MeO C 11

N

MeO C

MeO C III

AB Title compds. I (wherein R = CH2, NR', R = H, unsubstituted alkyl, Ph, Ph alkyl, etc.; R1 and R2 independently = H, OH, ON, halo, (un)substituted lower alkyl, phenylalkyl, alkoxy, or R1 or R1 and R2 may be taken together to form a trivalent radical selected from -CH:CHCH2O-, -CH2CH2-, -OCH2O-, -CH2CH2O-, -CH2CH2NR'-; n = 1-4; Y = substituted piperidyl or piperazyl bearing at least one substituted arom. homocyclic or heterocyclic ring system including a partially or completely hydrogenated bicyclic ring of max. 14 atoms with which the ring system is attached to the Y radical and which may contain one or more heteroatoms selected from the group of O, N and S), a process for their prepn., pharmaceutical compns. containing them, and their use as a medicine for treating anxiety disorders and disorders of body wt. alt. are disclosed. Thus, II was prepd. in 41% yield by reaction of III with N-phenyl-2-propenyl-piperazine. III was prepd. by substitution of Me

4-bromo-1-chlorobutane with 1-hydroxy-4,5-benzotricyclo[6.2.1.0(2,7)]undeca-2,4,6-triene-11-one

L12 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2001 ACS Continued

SUBSTANCE CONTAINING AT LEAST ONE CHARACTER IN A NODE NAME IS REQUIRED

L12 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2001 ACS Continued

subsequent quaternisation with hydroxyalkanes, epihalohydrins, epoxides and sulfonation with methanesulfonyl chloride. The compds. according to the invention have surprisingly been shown to have a serotonin (5-HT) reuptake inhibitor activity in combination with adrenergic (alpha1, alpha2) receptor antagonist activity and show a strong anti-depressant activity without being sedative. I produced an inhibition at the 5-alpha1A site but often also at the 5-alpha1B and 5-alpha2C sites and simultaneously at the 5-HT transporter site of more than 50% even at a test concn. ranging between 1 & M and 1 + M in a concn.-dependent manner. The invention also relates to novel combination of substituted isoxazolines having anti-depressant activity and anxiolytic activity and of body wt. control activity with antidepressants, anxiolytics and or antipsychotics to improve efficacy and/or onset of action.

IT 452322-26-8P 452322-27-9P

RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(intermediate prepn. and pharmaceutical activity of substituted isoxazolines as anti-depressants)

RN 452322-26-8 CAPLUS

CN 2-Propenamine, N-(4-methoxy-.alpha.-methylphenyl methylene)-.alpha.-methyl-, N-oxide (9CI)

(CA INDEX NAME)

Me

N

Me

MeO

RN 452322-27-9 CAPLUS

CN 2-Propenamine, N-[(4-methoxy-2-[5-(4-(2-naphthalenylmethyl)-1-piperazinyl]-1-pentenyl)phenyl]methylene]-.alpha.-methyl-, N-oxide (9CI) (CA INDEX NAME)

OMe

N Bu-t

N CH2 2 N CH2 CH2

CH2 N

Me

L... ANSWER 1 OF 14 CAPLUS COPYRIGHT ... ACS
ACCESSION NUMBER: ... CAPLUS
DOCUMENT NUMBER: ...
TITLE: Preparation of optically active ... and ... as hydrogenation catalysts and ... thereof
INVENTOR(S): Saito, Takaaki; Koba, Hitoshi; Inoue, Tsutomu
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries, Japan
SOURCE: Eur. Pat. Appl., ... pp.
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: ...
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO ...	A1	...	WO ...	...
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
EP ...	A1	...	EP ...	...
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP ...	A2	...	JP ...	...
US ...	A1	...	US ...	...
PRIORITY APPLN. INFO.:			JP ...	...
OTHER SOURCE(S):	CASREACT ...:...; MARPAT ...:...			

GI

L... ANSWER 2 OF 14 CAPLUS COPYRIGHT ... ACS ... on STN

... Ph ... Ph

... Ph ... Ph

... II

AB ... A method are ruthenium phosphine diamine complexes which are ... as catalysts for asym. hydrogenation, diamine ligands, and a **process** for highly stereoselectively producing optically active alcs. in high ... yield. The **process** comprises using a ruthenium complex represented by the general formula R1 Ru Cl2(PHOSPHINE) (X ...)(where n is ...); represents a phosphine ligand; DIAMINE represents an optically active ... amine represented by the general formula R5 R6 C(NHR7)-C(R8 R9)NHR10; wherein R1 to R4 each independently represents hydrogen, optionally ... substituted alkyl, alkoxyl, cycloalkyl, aralkyl, or acyl; A represents ... optionally substituted C1-3 alkylene optionally containing an ether bond, ... optionally substituted cycloalkylene, arylene, or divalent heterocyclic ring, or a single bond; R7 represents optionally substituted ... alkyl, optionally substituted alkoxyl, or optionally substituted acyl; and ... R7 represent a asym. carbon; X and Y each independently represents a ... alkoxy group; and n is an integer of ... or ... ; a catalyst for asym. hydrogenation is produced by ... reacting a ruthenium compound with a ligand ... to form an ... alpha.-aminocarbonyl ... a mol. ratio of ... ruthenium, carbonyl ... dihydrogen ... ethanol, under ... with a tetrahydroxydiboron, in ... THF at ... to ... to ... a ...

L... ANSWER 3 OF 14 CAPLUS COPYRIGHT 2010 ACS ... Retrieved ... gave ...
... (1S,2S)-N-(4-Benzyloxybenzylidene)-N'-benzyloxycarbonyl-1,2-diphenyl-1,2-ethanediamine which underwent hydrogenation over ... Pd/C in a ... (1:1 mixt. of MeOH and THF) ... at room temp. for 18 h to give ... (1S,2S)-N-(4-hydroxybenzyl)-1,2-diphenyl-1,2-ethanediamine (I). Treatment ... of I with NaH in DMF at room temp. for 2 h followed by benzylation with ... benzyl bromide at room temp. for 4 h gave 54% ... (1S,2S)-N-(4-benzyloxybenzyl)-1,2-diphenyl-1,2-ethanediamine (II). ... (S)-(+)-2,2'-Bis(diphenylphosphino)-1,1'-binaphthyl (III) ... 5 mg), 2 mg (I), ... 0.5 M MeOH/CH2Cl2 propanol ... (a mL), and a ... soln. of 134 mg 1-phenyl-2-(N-methyl-N-benzoylamino)propan-1-one in 3 mL ... 2-propanol were added to an autoclave, N-purged, and pressurized with H to ... 10 atm, and stirred at room temp. for 2 h to give (1S,2S)-1-phenyl-2-(N-methyl-N-benzoylamino)-1-propanol (IV; ee%, ... **442669-49-0P**
PL: PUR (Reactant or reagent); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preph. of ruthenium compds. as asym. hydrogenation catalysts and ... diamine ligands, and **process** for producing optically active ... beta.-amino alcs. from alpha.-aminocarbonyl compds.
RN 442669-49-0 CAPLUS
CN Carbamic acid, ... (1S,2S)-1,2-diphenyl-2-[[[4-(phenylmethoxy)phenyl]methylene]amino]ethyl]-, phenylmethyl ester, (... CA INDEX NAME

Absolute stereochemistry.
Double bond geometry unknown.

... Ph ... N ... O ... Ph ... Ph ... O

RE.CNT ... THERE ARE ... CITED REFERENCES AVAILABLE FOR THIS ... RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L... ANSWER 4 OF 14 CAPLUS COPYRIGHT ... ACS
ACCESSION NUMBER: ... CAPLUS
DOCUMENT NUMBER: ...
TITLE: Preparation of optically active beta.-keto alcohol and ... salen cobalt (II) or (III) complexes, **process** for the preparation thereof and intermediate therefor
INVENTOR(S): Naiwa, Takushi; Yamada, Toru
PATENT ASSIGNEE(S): Mitsui Chemicals, Inc., Japan
SOURCE: PCT Int. Appl., ... pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: ...
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO ...	A1	...	WO ...	...
W: US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
JP ...	A2	...	JP ...	...
PRIORITY APPLN. INFO.:			JP ...	...
OTHER SOURCE(S):	CASREACT ...:...; MARPAT ...:...			

GI

* STRUCTURE DIAGRAM IS NOT AVAILABLE FOR DISPLAY AVAILABLE VIA LEXICON PRINT *

AB Optically active cobalt (II) and (III) complexes represented by the general formulas (I, II, III, and IV; wherein R1 and R2 are each independently hydrogen, linear or branched alkyl, linear or branched ... alkenyl, aryl, aralkyl, alkoxycarbonyl, aryloxycarbonyl, or aralkyloxycarbonyl, these groups being each optionally substituted; or ... alternatively R1 and R2 together with the ... atoms to which R1 and R2 ... are linked may form a ring; X ... a counter anion (when ... is ...); a salt ... are prepd. These complexes are effective catalysts for asym. ... hydrolysis; and optically prepared beta.-keto ... optically active ... alcohols, via ... cyclopropanes with high stereoselectivity. Thus, a soln. of 2.05 g ... -methoxymethylbenzyl)-3-methylimidazolium chloride in 50 mL ethanol was added dropwise to ... a soln. of ... g ... (R,R)-N,N'-bis(3,5-di-tert-butylsalicylidene)-1,2-cyclohexanediaminocobalt(II) in 50 mL ethanol and stirred at room temp. for 1 h and 50 degrees for ... h ...

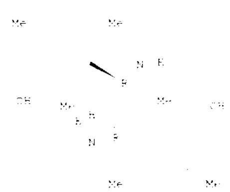
L12 ANSWER 3 OF 14 CAPLUS COPYRIGHT [illegible] ACS (Continued)
give [illegible] keto imine ligand [illegible] was dissolved in [illegible]
MeOH with stirring under N for [illegible] min, treated with a soln. of [illegible] NaOH
in [illegible] mL H2O, stirred at [illegible] degrees for [illegible] min, treated dropwise with a
soln. of [illegible] in [illegible] mL [illegible] upon which [illegible] crystals pptd.,
and stirred for [illegible] min, [illegible] to room temp., and filtered to give, after
washing the crystals with water, drying under N, and vacuum drying at
[illegible] degrees, at [illegible] degrees for [illegible] cobalt (II) complex [illegible] (R1 = COMe,
R2 = Me) (VI). Ethanol ([illegible] mL) and [illegible] mL tetrahydrofurfuryl alc. were
successively added to a suspension of [illegible] mg NaBH4 in [illegible] mL CHCl3 at
[illegible] degrees, and stirred for [illegible] min to prep. a soln. of modified
borohydride reducing agent. To the latter soln. were successively added
dropwise a soln. of 1.4 mg VI in 4 mL CHCl3 and a soln. of [illegible] mg
dibenzoylmethane in 4 mL CHCl3 at [illegible] degrees, and the resulting mixt. was
stirred at the same temp. for 4 h to quant. give
(1R,3[illegible])-1,3-diphenyl-1,3-
propanediol [illegible].

IT **425615-43-6P**
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);
USES (Uses)
(prepn. of optically active [illegible] keto imine and salen cobalt (II) and
(III) complexes as catalysts for asym. redn. and cyclopropanation)

RN 425615-43-6 CAPLUS

CN Phenol, 2,2'-[[(1R,2R)-1,2-bis(2,4,6-trimethylphenyl)-1,2-ethanediyl]bis[(E)-nitrilomethylidyne]]bis- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



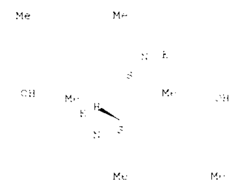
L12 ANSWER 3 OF 14 CAPLUS COPYRIGHT [illegible] ACS (Continued)

IT **425615-44-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. of optically active [illegible] keto imine and salen cobalt (II) and
(III) complexes as catalysts for asym. redn. and cyclopropanation)

RN 425615-44-7 CAPLUS

CN Phenol, 2,2'-[[(1S,2S)-1,2-bis(2,4,6-trimethylphenyl)-1,2-ethanediyl]bis[(E)-nitrilomethylidyne]]bis- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



REFERENCE COUNT: [illegible] THERE ARE [illegible] CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 14 CAPLUS COPYRIGHT [illegible] ACS

ACCESSION NUMBER: [illegible] CAPLUS

DOCUMENT NUMBER: [illegible]

TITLE: Cooperative Self Assembly of Dendrimers via Pseudorotaxane Formation from a Homotritopic Guest Molecule and Complementary Monotopic Host Dendrons

AUTHOR(S): Gibson, Harry W.; Yamaguchi, Norio; Hamilton, Lesley; Jones, Jason W.

CORPORATE SOURCE: Department of Chemistry, Virginia Polytechnic Institute & State University, Blacksburg, VA, 24061 USA

SOURCE: Journal of the American Chemical Society ([illegible]), 124(17), 4653-4665
CODEN: JACSAT; ISSN: [illegible]

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

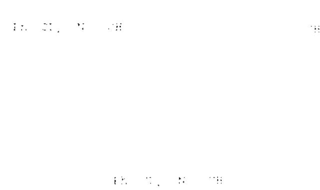
AB [illegible]nteraction of the homotritopic guest 1,3,5-tris[p-(benzylammoniomethyl)phenyl]benzene tris(hexafluorophosphate)
[illegible] with dibenzo-24-crown-8
(DB24C8) leads to the sequential self assembly of [2], [3], and
[4]pseudorotaxanes [illegible], resp. The self assembly
processes were studied using NMR spectroscopy. In CD3CN and
[illegible] the individual assocn. consts. K1, K2, and K3 for 1:1, 1:2, and
1:3 complexes were detd. by several methods. Via Scatchard plots, the
three NH2+ sites of 1a were shown to behave independently in binding
DB24C8. K values ([illegible] times. [illegible], [illegible] times. [illegible], and [illegible] M-1, resp.) in
CD3CN directly detd. from signals for the individual complexes [illegible],
and [illegible] were somewhat higher than those estd. from the Scatchard plot
because of concn. dependence, but the ratios of assocn. consts. followed
the expected statistical order (K1:K2:K3 = [illegible]). These are believed
to be the first evaluations of assocn. consts. leading to a
[4]pseudorotaxane. In the less polar [illegible], the [illegible] could not be
detd. because [illegible] of the dissolved tritopic guest, which by itself
[illegible], was present as the fully loaded [4]pseudorotaxane [illegible].
Self assembly of homotritopic guest 1a with benzyl ether dendrons of the
first, second, and third generations functionalized at the "focal point"
with DB24C8 moieties produces pseudorotaxane dendrimers. The
self assembly **processes** were studied using 1H NMR spectroscopy.
In [illegible] for all three generations the individual [illegible]
consts. K1,

L12 ANSWER 4 OF 14 CAPLUS COPYRIGHT [illegible] ACS (Continued)
K2, and K3 for [2], [3], and [4]pseudorotaxane complexes indicated that
the self-assembly was cooperative; i.e., the ratios of the individual
assocn. consts. exceeded the expected statistical ratios. Scatchard plots
confirmed this behavior. Self-assembly **processes** in the less
polar CDCl3 were kinetically slow, requiring [illegible] 2, and 3 days, resp.,
for the first, second, and third generation systems to reach equil. with
1a; the slow rate is attributed to the insoly. of the homotritopic guest
1a in this medium and the steric demands of the resulting dendrimers.
However, only dendrimers of 1:3 stoichiometry, i.e., the nanoscopic
[4]pseudorotaxanes were formed! Moreover, it is noteworthy that the
extent of dissocn. of 1a (reflective of the overall assocn. const. which
is too high to measure) increases with generation no., presumably because
of the more effective screening of the ionic guest by the larger dendrons
and perhaps favorable .pi.-.pi. and CH-.pi. interactions. Such
cooperative effects suggest a no. of applications that can take advantage
of the pH-switchable nature of these self-assembly **processes**.

IT **431990-63-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(reactant; cooperative self assembly of dendrimers via pseudorotaxane
formation from a homotritopic guest mol. and complementary monotopic
host dendrons)

RN 431990-63-5 CAPLUS

CN Benzenemethanamine, N,N'-[[5'-[4-[[(phenylmethyl)imino]methyl]phenyl][1,1':3',1''-terphenyl]-4,4''-diyl]dimethylidyne]bis- (9CI) (CA INDEX NAME)



L... ANSWER 8 OF 14 CAPLUS COPYRIGHT 2... ACS ...Continued

REFERENCE COUNT: ... THERE ARE ... CITED REFERENCES AVAILABLE FOR THIS ...
FOR THIS ... THIS RECORD. ALL CITATIONS AVAILABLE IN THE ...
RE ... FORMAT

L... ANSWER 9 OF 14 CAPLUS COPYRIGHT 2... ACS ...
ACCESSION NUMBER: ...
DOCUMENT NUMBER: ...
TITLE: ... fast in ... ability of self-assembled ... layers. I. ... Schiff base
AUTHOR(S): ...
CORPORATE SOURCE: ... Department of Chemistry, Shandong University, ...
... ..., Peop. Rep. China
... Division, Houston, TX, United States
SOURCE: ...
PUBLISHER: ... DAVE Interfacial
DOCUMENT TYPE: ... Journal
LANGUAGE: ... English
AB Self-assembled monolayers (SAM) of a Schiff base were prepd. on a ...
... surface under different conditions, and the quality and protection ability ... of resulting films against aq. corrosion of Cu were evaluated by ...
... impedance technique. Some factors, including solvent, ... and applied ... potential, both did affect self-assembly and ... were investigated. The ... results indicate that nitric acid washing of the Cu prior to ... adsorption ... an improve the quality and corrosion inhibition ability of SAM ... significantly. An appropriately applied ... potential during ... self-assembly ... contributed to the improvement of the quality of SAM, and the less ... hydrophobic chain in the mol. structure of the Schiff base ... enhanced the ... protection of SAM. Fourier transform IR ... XPS ... adsorption ... spectroscopy ... and XPS (XPS) were used to the anal. of SAM.
CC **419569-58-7**
... RL: BSU ... Physical, engineering or chemical process / ... (Technical or ... engineered material use); PROC (Process); USES (Uses)
... SAM of Schiff base; factors affecting the quality and ... corrosion ... inhibition ability of self-assembled mono ayers of a ... Schiff base ...
RN ... (Uncha ... 58-7 CAPLUS
CN ... (hexyl ... methoxy ... [(2-methoxyphenyl) methyl] ... -1-... (9CI) (CA INDEX NAME)

... OR

MeO ... OH ... CH2 ... Me

L... ANSWER 7 OF 14 CAPLUS COPYRIGHT 2... ACS ...Continued

REFERENCE COUNT: ... THERE ARE ... CITED REFERENCES AVAILABLE FOR THIS ... REPORT. ALL CITATIONS AVAILABLE IN THE ... RE FORMAT

L... ANSWER 6 OF 14 CAPLUS COPYRIGHT 2... ACS
ACCESSION NUMBER: ... CAPLUS ...
DOCUMENT NUMBER: ...
TITLE: Catalytic hydrogenation **processes** using ... ruthenium phosphine ... complexes
INVENTOR(S): ... Rautenstrauch, Valentin; Chalard, Peter; ... Mudalgi, ... Raphaely; Morris, Robert Harold; Abdur Rashid, ... Kamaluddin; Bruce, Brian; Mimoun, Hubert
PATENT ASSIGNEE(S): ... Firmenich S.A., Switz.
SOURCE: ... PCT Int. Appl., ... pp.
... CODEN: PIXD2.
DOCUMENT TYPE: ... Patent
LANGUAGE: ... English
FAMILY ACC. NUM. COUNT: ... 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
...	...	...	...	...
WO ...	A...	...	WO ...	...
... W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, ... CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, ... GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, ... LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, ... PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, ... US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
... RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, ... DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, ... BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
... A...	...	...	...	...
PRIORITY APPLN. INFO.:			WO ...	...
			WO ...	...
			WO ...	...

OTHER SOURCE(S): ... MARPAT (...)
AB The catalysts (R1 ... m of which, whereas R can represent simultaneously ... independently a H or halogen atom, a hydroxy group, or an alkoxy, carbonyl ... or other organic radical, R' ... is ... W ... when m is 1 and W ... when R' ... 2, L is a phosphine amine or phosphine imine ligand and L' a ... diphosphine, are useful for the hydrogenation of substrates having a ... C-hetero atom double bond. For example, (R,R)-EGBINAP ... L, ... 2-aminoethyldiphenylphosphine was prepd. from (R,R)-EGBINAP ... L and L under ... Ar in its H2 pressure of 50 bar. RuHCl(L') was used as a catalyst ... for ... hydrogenation of ... with ... ketones.

L11 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2002 ACS on STN
IT **404890-62-6 404890-64-8**
RL: TEM (Technical or engineered material use); USES (Uses)
(compd. in electrophotosensitive material functioning as binder for combining the org. photosensitive layer with the inorg. surface protective layer)
RN 404890-62-6 CAPLUS
CN Phosphonic acid, [(4-methylphenyl)methylene]bis-, diethyl ester (9CI) (CA INDEX NAME)

RN 404890-64-8 CAPLUS
CN Phosphonic acid, [(4-methylphenyl)methylene]bis-, bis(1-methylethyl) ester (9CI) (CA INDEX NAME)

L11 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2002 ACS on STN
ACCESSION NUMBER: 2001:[illegible] CAPLUS
DOCUMENT NUMBER: [illegible]
TITLE: Dye for photosensitive material
INVENTOR(S): Miyagawa, Eiichi; Inaba, Shoji; Furuichi, Mikio
PATENT ASSIGNEE(S): Konica Minolta Opto, Inc., Japan
SOURCE: Eur. Pat. Appl., 153 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: [illegible]
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP [illegible]	A[illegible]	[illegible]	EP [illegible]	[illegible]

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
SK, CY, TR, BG, CZ, EE, HU, SI, LT, LV, RO, MK
JP 2001[illegible] A2 [illegible] JP [illegible] [illegible]
JP 2001[illegible] A2 [illegible] JP 2000-[illegible] 20001[illegible]
JP 2001[illegible] A2 [illegible] JP 2000-[illegible] 20001[illegible]
JP 2001[illegible] A2 [illegible] JP [illegible] [illegible]
JP 2001[illegible] A2 [illegible] JP [illegible] [illegible]
US 2001[illegible] A1 [illegible] US [illegible] [illegible]
PRIORITY APPLN. INFO.: JP 2000-[illegible] A 20000[illegible]
JP 2000-[illegible] A 20000[illegible]
JP [illegible] A [illegible]
JP [illegible] A [illegible]
JP [illegible] A [illegible]
JP [illegible] A [illegible]
OTHER SOURCE(S): MARPAT 134:[illegible]

* FOR PRIOR DIAGRAM(S) SEE CAPLUS FOR FULLTEXT - AVAILABLE VIA SELECT PRINT *

AB This invention discloses an electrophotosensitive material comprising an
org. photosensitive layer and an inorg. surface protective layer, wherein
at least a surface part of the org. photosensitive layer contains at
least one compd. selected from a diphenylphosphine deriv. I (R1 = H, alkyl,
alkoxy, [illegible]; R2 = H, alkyl, alkoxy, [illegible]; and adjacent
atoms of the same ring may be linked together to form a fused ring, e.g.
naphthoquinone
deriv. II [R3-R6 = H, alkyl, alkoxy, alkylthio, [illegible]; n = 0-3; R7 =
halogen, alkyl, alkoxy, [illegible]; R8, R9 = H, alkyl, alkoxy, [illegible]; n1 = 0-4
[illegible]

L11 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2002 ACS on STN
ACCESSION NUMBER: [illegible] CAPLUS
DOCUMENT NUMBER: [illegible]
TITLE: Synthesis, characterization and antitumor activity of the complexes of lanthanide nitrates with tris [2-(N-4' hydroxy-3'-methoxyphenyl methylimino)-ethyl] amine
AUTHOR(S): Cai, Xi Shi; Tang, Yue Liu, Wei-Sheng; Tang, Nian; Tan, Min Yu
CORPORATE SOURCE: College of Chemistry and Chemical Engineering, Lanzhou University, Lanzhou, Peop. Rep. China
SOURCE: Gaodeng Xuexiao Huaxue Xuebao (= Chemical Journal of Chinese Universities), [illegible], [illegible]
PUBLISHER: Gaodeng Jiaoyu Chubanshe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
AB A typical ligand, tris[N-(4'-hydroxy-3'-methoxyphenyl methylimino)-ethyl]amine (L), and its complexes with lanthanide nitrates were synthesized. These new complexes of Ln(NO3)3.[illegible]4H2O (Ln = La, Eu, Gd, Tb, Er) were characterized by elemental anal., IR spectra, thermal anal. and 1H NMR spectra. All the complexes are stable in air. The IR and 1H NMR spectra of the ligand and its complexes show that all the -OH groups take part in coordination to the rare earth ions. The thermal behaviors of the La and Eu complexes are similar. The losses occur at [illegible]-degree. and [illegible]-degree. corresponding to the loss of two H2O and two H2O, resp. The Vt losses found in this **process** compare with the theor. values, so the complexes have lattice H2O and coordination H2O. The antitumor activities of partial complexes were studied.
IT **405934-01-2DP**, Rare earth, complexes
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); PYP (Physical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, characterization and antitumor activity of)
RN 405934-01-2 CAPLUS
CN Phenol, 4,4',4''-nitrilotris[2-[[[2-hydroxy-5-methoxyphenyl]methyl]amino]ethyl]-
(9CI) (CA INDEX NAME)

L17 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2002 ACS on STN (Continued)

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2002 ACS on STN

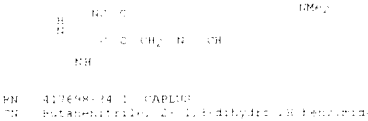
ACCESSION NUMBER: 2002:414819 CAPLUS
DOCUMENT NUMBER: 136:414819
TITLE: Design of bulk liquid membrane transport
complementary
anion receptors
AUTHOR(S): Schneider, H.-J.; Blatter, Markus; Mohr,
Armin
CORPORATE SOURCE: Institut fuer Organische Chemie, Universitaet des Saarlandes, Saarbruecken, Germany
SOURCE: Supramolecular Chemistry (2002), 14(2), 143-148
CODEN: SUCHEG; ISSN: 1061-0278
PUBLISHER: Taylor & Francis Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Bulk liq. membrane transport rates of anions through a CHCl3 membrane were measured for a series of neutral receptors. Receptors with complementary binding sites for the anions to be transported showed the highest transport rates. Receptors with binding sites that are too small or too large for the anions to be transported showed significantly lower transport rates. Receptors with binding sites that are complementary to the anions to be transported but that are also capable of binding the cations that are present in the aq. phase showed significantly lower transport rates than receptors that are complementary to the anions to be transported but that are not capable of binding the cations that are present in the aq. phase. Receptors that are capable of binding the cations that are present in the aq. phase but that are not complementary to the anions to be transported showed no transport activity. Receptors that are not capable of binding the cations that are present in the aq. phase and that are not complementary to the anions to be transported showed no transport activity.
IT 406911-11-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant for prepn. of copper
bis(pyridylethylformimidoylphenolate
4,4'-bipyridine bis 4-pyridylethylene tetranuclear complexes
RN 406911-11-3 CAPLUS
CN Phenol, 4-methyl-2,6-bis[[(2-pyridinylethyl)methylamino]methyl]-
(9CI) (CA INDEX NAME)

L17 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2002 ACS on STN

ACCESSION NUMBER: 2002:414819 CAPLUS
DOCUMENT NUMBER: 136:414819
TITLE: Design of bulk liquid membrane transport
complementary
anion receptors
AUTHOR(S): Schneider, H.-J.; Blatter, Markus; Mohr,
Armin
CORPORATE SOURCE: Institut fuer Organische Chemie, Universitaet des Saarlandes, Saarbruecken, Germany
SOURCE: Supramolecular Chemistry (2002), 14(2), 143-148
CODEN: SUCHEG; ISSN: 1061-0278
PUBLISHER: Taylor & Francis Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Bulk liq. membrane transport rates of anions through a CHCl3 membrane were measured for a series of neutral receptors. Receptors with complementary binding sites for the anions to be transported showed the highest transport rates. Receptors with binding sites that are too small or too large for the anions to be transported showed significantly lower transport rates. Receptors with binding sites that are complementary to the anions to be transported but that are also capable of binding the cations that are present in the aq. phase showed significantly lower transport rates than receptors that are complementary to the anions to be transported but that are not capable of binding the cations that are present in the aq. phase. Receptors that are capable of binding the cations that are present in the aq. phase but that are not complementary to the anions to be transported showed no transport activity. Receptors that are not capable of binding the cations that are present in the aq. phase and that are not complementary to the anions to be transported showed no transport activity.
IT 406911-11-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant for prepn. of copper
bis(pyridylethylformimidoylphenolate
4,4'-bipyridine bis 4-pyridylethylene tetranuclear complexes
RN 406911-11-3 CAPLUS
CN Phenol, 4-methyl-2,6-bis[[(2-pyridinylethyl)methylamino]methyl]-
(9CI) (CA INDEX NAME)

L17 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2002 ACS on STN

ACCESSION NUMBER: 2002:417698 CAPLUS
DOCUMENT NUMBER: 136:416463
TITLE: Reaction of 2-(1-azabetaryl)-4-chloro-3-oxobutyronitriles with substituted benzaldehyde hydrazones. Unexpected formation of 4-arylideneamino-2-(1-R benzimidazol-2-yl)-3-oxobutyronitriles
AUTHOR(S): Volovnenko, Yu. M.; Tverdokhlebov, A. V.; Volovnenko, T. A.
CORPORATE SOURCE: Taras Shevchenko University, Kiev, 252033, Ukraine
SOURCE: Chemistry of Heterocyclic Compounds (New York, NY)
United States Translation of Khimiya Geterotsiklicheskikh Soedinenii (2001), (7), 976-984
CODEN: CHCYAL; ISSN: 0009-3122
PUBLISHER: Kluwer Academic/Consultants Bureau
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The reaction of 2-(1-azabetaryl)-3-oxo-4-chlorobutyronitriles with substituted benzaldehyde hydrazones gives 4-arylideneamino-2-(1-R benzimidazol-2-yl)-3-oxobutyronitriles, the structures of which were proved using spectroscopic data, the results of elemental anal., and through their chem. reactions. The reaction course depends on the basicity of the heterocyclic fragment in the starting nitrile. A likely mechanism for the process is proposed.
IT 417698-33-0P 417698-34-1P 417698-35-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. by reaction of 2-(1-azabetaryl)-4-chloro-3-oxobutyronitriles with substituted benzaldehyde hydrazones)
RN 417698-33-0 CAPLUS
CN Butanenitrile, 2-(1,3-dihydro-1H-benzimidazol-2-ylidene)-4-[[4-(dimethylamino)phenyl]methylene]amino]-3-oxo- (9CI) (CA INDEX NAME)



RN 417698-34-1 CAPLUS
CN Butanenitrile, 2-(1,3-dihydro-1H-benzimidazol-2-ylidene)-4-[[4-(diethylamino)phenyl]methylene]amino]-3-oxo- (9CI) (CA INDEX NAME)

L11 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2007 ACS (Continued)

PAGE 1 A

PAGE 2 A

L11 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2007 ACS

ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
Synthesis a route for large organometallic
macrocycles
AUTHOR(S):
Hellwig, Patrick; Kelle, Helmut;
CORPORATE SOURCE:
Institut für Anorganische und Analytische
Chemie der
Friedrich-Schiller-Universität Jena, Jena,
07743,
Germany
SOURCE:
Chemistry--A European Journal (2002),
8(24), 5714-5721
CODEN: CEUJED; ISSN: 0947-6539
PUBLISHER:
Wiley-VCH Verlag GmbH
DOCUMENT TYPE:
Journal
LANGUAGE:
English
OTHER SOURCE(S):
CASREACT 138:91454

AB The reaction between cis 1,5-cyclooctadiene nickel(II) chloride, CO2 and
benzaldehyde N-furfurylidenemine (A) in 1,4-dioxane or THF gave the
,4-membered organometallic macrocycle
[(A)Ni(-CH(R1)-N:R2:CO)2] (R1 = Ph, R2 = furfurylidene, solv. 1,4-dioxane in Ia, THF in Ib).
According to the X-ray analyses, six monomeric [(A)Ni(-CH(R1)-N:R2:CO)] units are
connected through six Ni(sp2)-O(sp2) Ni bridges in these macrocycles. The
solvates of the metallomacrocycles [(A)Ni(-CH(R1)-N:R2:CO)2]6·6(solv.) (Ia, Ib,
·4.5C6H6) each contain one solvent mol. Reaction of Ib with MeOH
result's in the displacement of the peripheral organic A by the phosphine
to form the 24-membered organometallic macrocycle Ic. Both Ia and Ib
isomerize in benzene to form dimeric
[(A)Ni(-CH(R1)-N(R2)-CO0-)(solvin
2). The X-ray crystal structure reveals that 2 consists of the same
monomeric units as found in Ia and Ib. However, two Ni-O(sp2) Ni bonds
link the carboxylate groups. The solvent-dependent isomerization of Ia
yielding 2 is a reversible reaction. Also, the macrocycle Ia partially
eliminates A above 0°C in vacuo, followed by elimination of half of the
benzoconjugated Schiff base ligands to form a planar tetrameric
complex. This is the 1st transition **process**.

IT **408329-63-5P**

L12 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2007 ACS (Continued)

RE.CNT 1 THERE IS 1 CITED REFERENCE AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

PAGE 1 A

PAGE 2 A

PAGE 3 A

L11 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2007 ACS (Continued)

PAGE 1-A

PAGE 2-A

PAGE 3-A

IT **408329-65-7P**
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(crystal structure; prepn. and dimerization of)
RN 408329-65-7 CAPLUS
CN Nickel, bis[1-[(2-furanylmethyl)(phenylmethyl-.kappa.C)carbamato-.kappa.O]-2-propanolato-.kappa.O,.kappa.O]bis[.mu.-[2-furanylmethyl(phenylmethyl-.kappa.C)carbamato-.kappa.O:.kappa.O]]di-
(2)
furanmethanamine (.kappa.N)di-, compd. with tetrahydrofuran (1:4) (9CI) (CA INDEX NAME)

CM 1

CRN 408329-64-6
CMF C52 H52 N4 Ni2 O8

CM 2

CRN 109-99-9
CMF C4 H8 O

L11 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2007 ACS (Continued)

PAGE 1-B

PAGE 2-B

PAGE 3-B

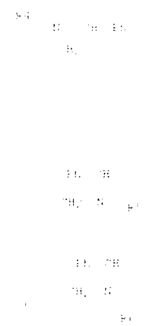
IT **408521-25-5P**
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(crystal structure; prepn., dimerization and photomerization of; reaction with chelating ligands)
RN 408521-25-5 CAPLUS
CN Nickel, bis[1-[(2-furanylmethyl)(phenylmethyl-.kappa.C)carbamato-.kappa.O]-2-propanolato-.kappa.O,.kappa.O]bis[.mu.-[2-furanylmethyl(phenylmethyl-.kappa.C)carbamato-.kappa.O:.kappa.O]]di-, (OC-6-11-2,3,4,5)-
(9CI) (CA INDEX NAME)

CM 1

CRN 408329-64-6
CMF C52 H52 N4 Ni2 O8
CCI CCS

L17 ANSWER 11 OF 14 CAPLUS COPYRIGHT [illegible] ACS (Continued)

PAGE 1-A

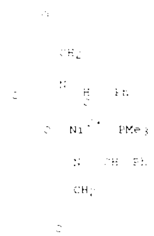


CM 2

CRN [illegible]
CMF [illegible]

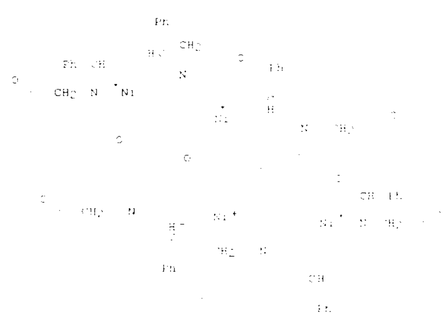
IT **408329-66-8P**
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(mol. structure; prepn. and elimination reaction of trimethylphosphine from)
RN 408329-66-8 CAPLUS
CN Nickel, [(2-furanylmethyl)(phenylmethyl).kappa.C]carbamato(2-).kappa.O][N-(2-[N-(phenylmethylene)-2-furanmethanamine-.kappa.N2](trimethylphosphine)-, (SP-4-2)- (9CI) (CA INDEX NAME)

L17 ANSWER 11 OF 14 CAPLUS COPYRIGHT [illegible] ACS (Continued)



IT **408329-69-1P 408329-72-6P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and crystal structure of)
RN [illegible] CAPLUS
CN Nickel, rel-[.mu.3-[(2-furanylmethyl)[(R)-phenylmethyl-.kappa.C]carbamato(2-)-.kappa.O:.kappa.O:.kappa.O']][.mu.-[(2-furanylmethyl)[(S)-phenylmethyl-.kappa.C]carbamato(2-)-.kappa.O:.kappa.O:.kappa.O']]bis[N-(2-[illegible] N-(phenylmethylene)-2-furanmethanamine-.kappa.N2]bis[[N-(2-[illegible] N-(phenylmethylene)-2-furanmethanamine-.kappa.N2]tetra-, stereoisomer (9CI) (CA INDEX NAME)

L17 ANSWER 11 OF 14 CAPLUS COPYRIGHT [illegible] ACS (Continued)

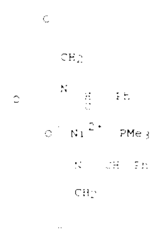


RN 408329-72-6 CAPLUS
CN Nickel, [(2-furanylmethyl)(phenylmethyl)-.kappa.C]carbamato(2-)-.kappa.O][N-(2-[N-(phenylmethylene)-2-furanmethanamine-.kappa.N2](trimethylphosphine)-, (SP-4-2)-, compd. with tetrahydrofuran (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN [illegible]
CMF [illegible]
CCI CCS

L17 ANSWER 11 OF 14 CAPLUS COPYRIGHT [illegible] ACS (Continued)



CM 2

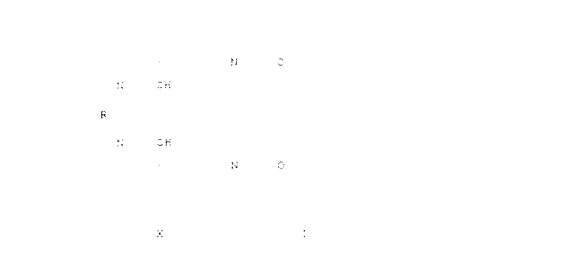
CRN [illegible]
CMF C4 H8 O

REFERENCE COUNT: [illegible] THERE ARE [illegible] CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 12 OF 14 VARIOUS COPYRIGHT © 2 A.S.
ACCESSION NUMBER: [illegible] VARIOUS
DOCUMENT NUMBER: [illegible]
TITLE: Adsorption behavior of Schiff base and
its [illegible]
plate-like self-assembled films f... giet
+ surface
AUTHOR(S): Jiao, Shuchun; Chen, Shenbao; Li, Yingy Cui,
Xueqin
CORPORATE SOURCE: Department of Chemistry, Shandong University,
Jinan,
...ic , Peop. Rep. China
SOURCE: Chemical Journal (...), ... 33 (...), ... 737
CODEN: HHAAAU ISSN: ... ...
PUBLISHER: Higher Education ...ss
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Self assembled SA films of Schiff base were prepd. on the ...
surface.
The corrosion protection abilities of SA films in Cl soln. were
evaluated
using electrochem. impedance spectroscopy and polarization curves.
A
subsequent adsorption of 1 dodecanethiol on the original SA films
of
Schiff base improved substantially the protective ability to the
... iet
substrate. The behavior of Schiff base adsorption on Cu surface
and
subsequent adsorption of 1 dodecanethiol was primed by XPS. ...
exists
mainly in Cu(I) state in the SA films of Schiff base, and the
... 1 mole
subsequently adsorbed was ... ded directly to ... with a ... atom
phys...rbed on the protective SA films.
IT **419569-58-7**, ... Oda
RL: PEP (Physical, engineering or ... chemical process ; PRP
(Properties) ; PYP
(Preparation) ; PROC (Process)
(adsorption of Schiff bases and dodecanethiol and corrosion
protection
of [illegible] films to ... substrate
RN ...-Propanol, ... (VARIOUS
CN Phenol, 2-methoxy-4-[octadecylimino methyl]- (9CI) (CA INDEX
NAME)

REFERENCE COUNT: ... THERE ARE 35 CITED REFERENCES AVAILABLE
FOR THIS

L17 ANSWER 13 OF 14 VARIOUS COPYRIGHT © 2 A.S.
ACCESSION NUMBER: ... 1997:... VARIOUS
DOCUMENT NUMBER: [illegible]
TITLE: Synthesis of copper(II) and nickel(II)
complexes using
compartmental ligands: X-ray, electrochem...al
and
magnetic studies
AUTHOR(S): Manonmani, J.; Thirumurthi, ...; Ponnuswamy,
M.J.;
Narayanan, V.; Thamarai Sundara Pan, S.;
Ponnuswamy,
M. J.; Thammiah, G.; Pan, S. P.
CORPORATE SOURCE: School of Chemical Sciences, Department of
Inorganic
Chemistry, University of Madras, Chennai, ...
...,
India
SOURCE: Transition ... ( ), ... (...), ... 45
CODEN: TLMBR6 ISSN: ...
PUBLISHER: Kluwer Academic ...
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB Acyclic dicompartmental ligands suitable for the complexation of
transition metal ions which ... from reaction of ... 2-
hydroxybenzyl
...amines with ... ... and ... ... Mononuclear complexes MCl2(M
= Cu, Ni)
where L1 = N,N'-bis(... hydroxy-5-morpholino ... ylmethyl ...
methylbenzyl)-N,N'-dimethylethylenediamine (I; X = Br, R = ...
L2:
Butylene, L3= ...CH2CH(OH)CH2... ... / MCl2 (M = Cu, Ni)
where the

L17 ANSWER 14 OF 14 VARIOUS COPYRIGHT © 2 A.C. ... (Continued)
... amine L1 is reduced to the diamine L2 -
N,N' bis(2-hydroxy-5-morpholino
-1-ylmethyl-3-methylbenzyl)alkyldiamine (Alkyl = ethylene, L2a;
propylene,
L2b; and M=Cl, M = Cu, Ni where L1
N,N' bis(2-hydroxy-5-morpholino-1-
ylmethyl-3-bromobenzyl)alkyldiamine (I; X = Br, R = ethylene, L3a;
propylene, L3b; butylene, L3... were synthesized and characterized
by C, H,
N anal., IR, electronic and NMR spectra. The complexes CuH2L1a
...),
CuH2L2a (4 ... NiH2L1a (5 ... and NiH2L2a (6) were analyzed by x-ray
crystallog. Complexes 4 and 6 have square pyramidal geometry. The
coordination geometry around the metal ion in complex 5 is square
planar
and in ...plex 6 it is octahedral. Electrochem. studies of the
complexes
show a single quasi reversible electron transfer **process** at the
neg. potential region for Cu complexes at Ep Epa = -1.10 to ...
V, for
Ni complexes ... Epc = ... to ...86 V. Cu complexes show a
magnetic
moment value of ...mu.eff = 1.7... 1.9... mu.B. The square planar Ni
complexes
are diamagnetic whereas the Ni complex 6, with octahedral
structure has
a magnetic moment value of 3.12 mu.B.
IT **402498-68-4P 402498-69-5P 402498-70-8P**
RL: PAC (Pharmacological activity); PNU (Synthetic preparation); PREP
(Preparation); RACT
(Reactant or reagent)
... prepn. and complexation with copper II
RN 4-[4-... ... ... (VARIOUS
CN Phenol,
2,2'-[1,2-ethanediylbis(nitrilomethylidyne)]bis[4-bromo-6-(4
morpholinylmethyl)- ... (9CI) (CA INDEX NAME

L12 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2 [illegible]

RN 402498-64-0P CAPLUS
CN Phenol,
2,2'-[1,2-propanediylbis[nitrilo(methylene)]]bis[4-methyl- (9CI)
(CA INDEX NAME)

RN 402498-65-1P CAPLUS
CN Phenol,
2,2'-[1,4-butanediylbis[nitrilo(methylene)]]bis[4-methyl- (9CI)
(CA INDEX NAME)

RN 402498-66-2P CAPLUS
CN Phenol,
2,2'-[1,2-ethanediylbis[nitrilomethylidyne]]bis[4-methyl-6-(4-
morpholinylmethyl)- (9CI) (CA INDEX NAME)

L12 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2 [illegible]

RN 402498-63-9 CAPLUS
CN Phenol,
2,2'-[1,2-propanediylbis[nitrilo(methylene)]]bis[4-methyl- (9CI)
(CA INDEX NAME)

RN 402498-64-0P CAPLUS
CN Phenol,
2,2'-[1,2-propanediylbis[nitrilomethylidyne]]bis[4-methyl- (9CI)
(CA INDEX NAME)

RN 402498-65-1P CAPLUS
CN Phenol,
2,2'-[1,4-butanediylbis[nitrilomethylidyne]]bis[4-methyl- (9CI)
(CA INDEX NAME)

RN 402498-66-2P CAPLUS
CN Phenol,
2,2'-[1,2-ethanediylbis[nitrilomethylidyne]]bis[4-methyl-6-(4-
morpholinylmethyl)- (9CI) (CA INDEX NAME)

L12 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2 [illegible]
ACCESSION NUMBER: [illegible] CAPLUS
DOCUMENT NUMBER: [illegible]
TITLE: Synthesis of spiro- and fused heterocycles by palladium catalysed [illegible]-allyl and heteroannulation cascades of allenes
AUTHOR(S): Grigg, Ronald; Kopper, Ines; Kuspatin, Marcello; Sridharan, Visvanathan
CORPORATE SOURCE: Molecular Innovation, Diversity and Automated Synthesis (MIDAS) Centre, School of Chemistry, Leeds University, Leeds, LS2 9JT, UK
SOURCE: Chemical Communications (Cambridge, United Kingdom), (21), 964-965
CODEN: CHCOFS; ISSN: [illegible]
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): [illegible]
GI

AB Two novel palladium catalyzed cascade **processes** involving the generation of a [illegible]-allyl palladium intermediate from allenes in [illegible] intra- or intermol. fashion, followed by regioselective intramol. nucleophilic addn. of amines, alcs. or malonates provide spiro [illegible] and fused heterocycles (II; X = NBn, N-cyclopropyl, NPh, O, CMe2; R = H, Me; or linked heterocycles (II; X = NBn, N-cyclopropyl, N-(1-phenylethyl), N-1-naphthalen-1-yl-ethyl, O, CMe2; R = H) in good yields.

IT **445425-72-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis of spiro- and fused heterocycles by palladium catalyzed [illegible]-allyl and heteroannulation cascades of allenes)
RN 445425-72-9 CAPLUS
CN 2-Propyn-1-amine, N-[[3-(dimethoxymethyl)phenyl]methylene]- (9CI) (CA INDEX NAME)

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=> d his

     (FILE 'HOME' ENTERED AT 12:43:55 ON 23 SEP 2002)

     FILE 'REGISTRY' ENTERED AT 12:44:06 ON 23 SEP 2002
L1                STRUCTURE UPLOADED
L2             547 S L1 FUL

     FILE 'CAPLUS' ENTERED AT 12:44:36 ON 23 SEP 2002
L3             145 S L2 P

     FILE 'REGISTRY' ENTERED AT 12:44:52 ON 23 SEP 2002
L4                STRUCTURE UPLOADED
L5               1 S L4 FUL
L6                STRUCTURE UPLOADED
L7             581 S L6 FUL
L8             367 S L7 AND CAPLUS/LC

     FILE 'CAPLUS' ENTERED AT 12:48:48 ON 23 SEP 2002
L9             123 S L7 FUL
L10              1 S L9 AND L3 FUL
L11        2839860 S PROCESS?
L12             14 S L11 AND L7

=> s aryloxamir?
L13            29 ARYLOXAMIR?

=> s l13 and l7 ful
             123 L7
L14              1 L13 AND L7

=> log y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                   76.61     503.96

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                   -9.29      -9.29

STN INTERNATIONAL LOGOFF AT 13:00:02 ON 23 SEP 2002
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